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RTI90-320 T2 HD UK
RTI90-500 T2 HD UK

Terrestrial High Definition Digital Television Recorder

User Manual

Sagemcom

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Congratulations!

This High Definition Digital Television Receiver (DTR) is an innovative product from the latest generation of Sagemcom digital TV recorders, dedicated to Digital Terrestrial Television. Equipped with a silent hard disk drive, it allows easy reception and recording of digital programmes, including those broadcast in High Definition.

Once you have connected your recorder and performed the initial installation, you will be able to watch and enjoy all the FREEVIEW channels available in your geographical area. Thanks to its embedded 'over the air' upgrade feature, you can update your recorder with new features or services when they become available.

The Sagemcom recorder follows a continuous development strategy. Therefore, we reserve the right to make changes and improvements to the product described in this user manual without any prior notice.

CE Marking:
The CE marking certifies that the product complies with the essential requirements of the Directive1999/5/EC concerning radio equipment and telecommunication equipment, and of Directives 2006/95/EC concerning safety, 2004/108/EC concerning electromagnetic compatibility and ErP 2009/125/EC concerning ecodesign requirements, defined by the European Parliament and Council to minimize electromagnetic interferences, ensure the safety of users and their equipment and protect their health, and minimize the impact of products on the environment.

The CE declaration of conformity can be viewed in the support section of the Sagemcom site www.sagemcom.com, or it can be obtained from the following address:

Sagemcom Broadband SAS - Customer relations department
250 route de l'Empereur
92848 Rueil-Malmaison Cedex - FRANCE

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All rights reserved
Sagemcom is a registered trademark.

The FREEVIEW and FREEVIEW+HD words and logos are trademarks of DTV Services Ltd and are used under licence.

This "HD TV" Television Receiver complies with the "HD TV" Minimum Requirements. The "HD TV" Logo is a trademark of DIGITALEUROPE. HDMI, HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

DTS is a registered trademark of DTS, Inc.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories Inc.

Telephone number for your local store is on your till receipt.
Should your Store be unable to help, please check the following Websites for
Digital Television Terrestrial signal coverage:

http://www.dtg.org.uk/consumer/freeview.html
http://www.freeview.co.uk
http://www.bbc.co.uk/digital

Please note: In order to receive digital signal of good quality you may need an antenna upgrade.

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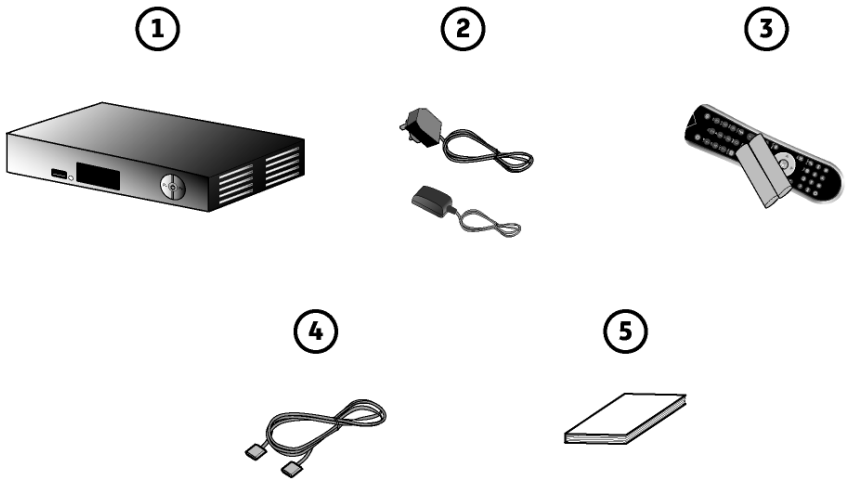
1. Product Overview

Your High Definition Digital Television Recorder allows you to watch and record FREEWIEW channels.

Package contents

Your new equipment includes:



Item	Description
1	1 High Definition Digital Television Recorder (DTR)
2	1 power supply unit (power adapter and power cord)
3	1 remote control with 2 batteries (AAA)
4	1 HDMI lead for connection to a High Definition TV set
5	This user manual

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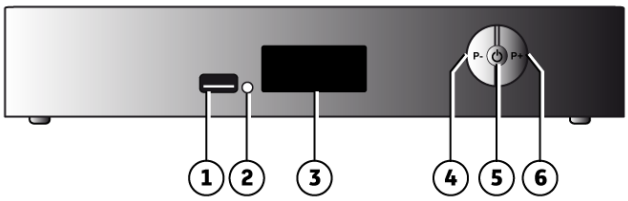
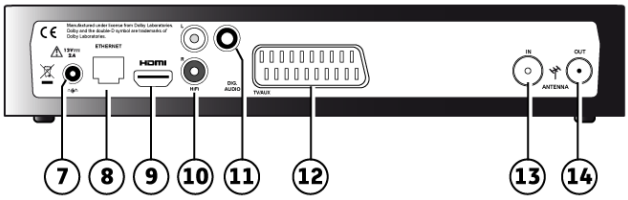
Front panel of the recorder



Item	Description	Item	Description
1	**USB port**	4	**P-** Change channel (Down)
2	**Status indicator**	5	**Standby button** • Put the recorder in standby mode/Wake up the recorder from standby mode (press and let go) • Restart the recorder (press and hold for 5 sec.)
3	**Digital display** • Shows the current time when the recorder is in standby. • Shows the programme number when the recorder is on. • Shows hard disk activity (recording in progress, programme playback, ...)	6	**P+** Change channel (Up)

Rear panel of the recorder



Item	Description	Item	Description
7	**Power supply unit connector**	11	**Digital audio connector** (S/PDIF)
8	**Ethernet port**	12	**SCART connector** (to TV)
9	**HDMI Digital video audio connector**	13	**Antenna input**
10	**Analogue audio connectors** (to hi-fi unit)	14	**Antenna output**

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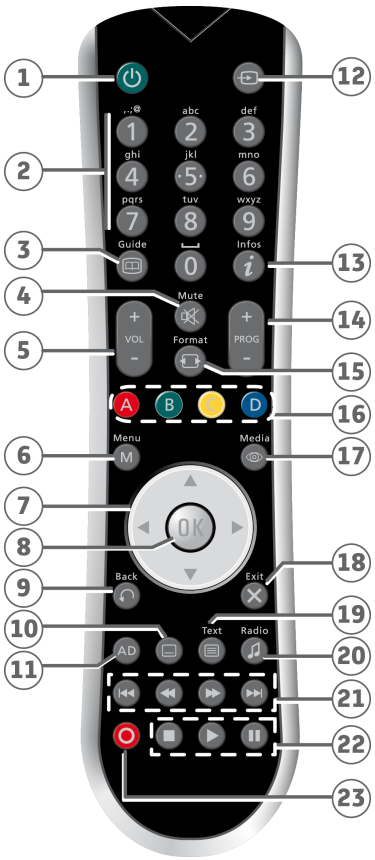
Remote control



Key(s)	Description
1	Put the recorder in standby mode/Wake up the recorder from standby mode.
2	Access channels and various on-screen options
3	Display the electronic programme guide (EPG)
4	Turn the sound off/on
5	Increase or decrease the audio volume
6	Access menus
7	Move in a page, a menu, the PIP window…
8	Display the channel list, confirm a selection
9	Go back to the previous channel, screen or mode
10	Select subtitles
11	This key is by default deactivated. Becomes active when Audio description is activated in your User Preferences, and allows then to set Audio description on the current programme (see section **Setting your language options**, page 45).
12	Activate/deactivate PIP feature
13	Display programme information and options
14	Change channel in the main screen and in the PIP
15	Video resizing (if TV set connected via HDMI).
16	On-screen options (MHEG, Teletext pages and menu)
17	Access the recording list
18	Exit a screen, a mode
19	Display Teletext pages when available
20	Switch from TV mode to Radio mode
21	Skip backward / Rewind / Fast forward / Skip forward
22	Stop / Play / Pause
23	Launch immediate recording, Schedule a recording from the electronic programme guide (EPG)
Undocumented keys are not used on this product.	

Batteries

The remote control needs two batteries (AAA) to operate. The drawing in the battery compartment indicates how to install them. The batteries provided are not rechargeable.

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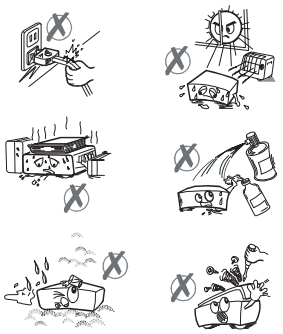
2. Safety recommendations

Use of the recorder is subject to safety measures designed to protect users and their environment.

Where to put your recorder?

In order to guarantee the correct operation of your recorder, you must:

- place it indoors to protect it from lightning, rain, and sun rays,
- place it in a dry and well ventilated area,
- keep it away from heat sources such as radiators, candles, lamps, etc.
- protect it from dampness, place it on a flat surface from where it will not fall and is out of reach of the children,
- avoid violent shocks. Choose a stable, horizontal surface on which the recorder will not be exposed to intense vibrations.
- do not place anything on top of your recorder (as it would restrict ventilation): the ventilation slots located on the casing prevent your recorder from overheating. If you place the recorder in a compartment, leave a space of at least 10 cm on each side and 20 cm on the front and back of the recorder,



- connect it directly to the mains with the provided cords, the socket must be near the recorder and easy to access. The use of an extension cable (with multi-points) is not recommended.

Warnings and safety instructions

NEVER OPEN THE RECORDER OR THE POWER SUPPLY UNIT! YOU RISK GETTING AN ELECTRIC SHOCK.

•Use only the power supply unit supplied with the recorder to connect it to the mains. Other practice may be dangerous.

•As a precaution, in case of danger, the power supply unit acts as a disconnecting mechanism for the 230V power supply. That is why it is imperative that you connect the recorder to a power outlet located nearby and easily accessible.

- Connect the recorder to the mains in accordance with the indications mentioned on the identification label affixed on the recorder (voltage, current, frequency of electricity network).
- The identification label is located under the recorder or on the rear panel.
- You must imperatively connect the power supply unit to the recorder before connecting the power supply unit to the power socket. Ensure the power cord is correctly connected to the mains power socket and to the recorder. Otherwise, there is a risk of fire and you risk getting an electric shock when touching the recorder.
- You must imperatively use the recorder in an environment that complies with the following requirements:
    - temperature of between 0°C [32°F] and 40°C [104°F].
    - ambient humidity of between 20% and 90%.
    - altitude below 2000 m/ 6562 ft.

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- To avoid short-circuits (fire or electrocution hazard), do not expose your recorder to dampness. Do not place any object containing liquid (vase for example) on the appliance. The recorder must not be splashed with liquid. If liquid is spilled onto the recorder, unplug it immediately from the mains and consult your supplier.
- Take care not to allow liquids or metal objects to enter the recorder through the ventilation slots.
- Avoid reconnecting the recorder after it has been subjected to large changes in temperature.
- The recorder must be disconnected from mains supply (from the power outlet or rear panel) before any modification of connection between TV, VCR or antenna.
- In the event of a storm, it is advisable to unplug the antenna. Even if the recorder and the television set are disconnected from the power supply, lightning can still damage them.
- If you hear unusual noise coming from the mains power socket or from the power cord or adapter, disconnect immediately the power cord from the mains power socket in accordance with all the precautions of use, you risk getting an electric shock, and contact your retailer.
- Never connect the recorder to a mains power socket which is loose, shows signs of wear or damage, you risk getting an electric shock.
- Never touch the power cord with wet hands. You risk getting an electric shock.
- When connecting or disconnecting the power cord, always take hold of the plug without pulling on the cord. A damaged cord presents a potential risk of fire or electric shock. Never pull the power cord when disconnecting from the mains power socket.
- Never place objects on the power cord, and never pull on it or fold it. This may cause a risk of fire or electric shock. Ensure that the recorder never lies on the power cord or any other cables.
- Never place objects on the power adapter, never step on it or roll over it with a rolling device. You risk damaging the power adapter and creating a risk of fire or electric shock.
- Ensure the recorder is placed on a flat and stable surface, placing it incorrectly may lead to the power cord being disconnected. This may cause a risk of fire or electric shock.
- Always connect the power adapter cord to the recorder first, then connect the power cord to the power adapter, and finally connect the power cord to the mains power socket. By not observing the order indicated, you risk getting an electric shock.
- Ensure the power cord is correctly connected to the power adapter, and that it is firmly inserted in its slot. It is important that you push the connector into its slot. There is a risk of fire or electric shock in case of incorrect connection.
- Always keep the power cord and power supply unit out of the reach of children or domestic animals.
- Only personnel approved by the manufacturer can repair the recorder. Failure to comply with these safety precautions will invalidate the guarantee.
- Have a specialised installer perform all connections if you want to use cables that are not provided with the recorder.

Batteries

Batteries are easily swallowed by young children. Do not allow young children to play with the remote control.

Always keep batteries away from excessive heat sources such as sun rays, fire or similar sources.

To avoid damaging the remote control, only use identical batteries or batteries of an equivalent type. The batteries provided are not rechargeable.

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Interference

Do not place the recorder near appliances that may cause electromagnetic interferences (for example loudspeakers). This could affect recorder operation and distort the picture or sound.

Hard disk

This unit contains a hard disk drive. Please wait for the unit to go into standby mode before unplugging and moving it.

Never cut off the electrical supply while the disk is reading or writing, you may lose data and/or damage the hard disk.

USB Storage devices

Please wait until the recorder or the multimedia file application is in standby mode before disconnecting your storage devices. Else, you could lose data or damage your storage device.

When connecting a USB peripheral device, respect the way of insertion and never use force. You may damage your peripheral device and/or the appliance.

Cleaning the recorder

The outer casing of the recorder can be cleaned with a soft and dry cloth. Do not use any type of abrasive pad, scouring powder or solvents, such as alcohol or turpentine, as they could damage the surface of the recorder.

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3. Environment

Preservation of the environment is an essential concern of the manufacturer. The desire of the manufacturer is to operate systems observing the environment and consequently it has decided to integrate environmental performances in the life cycle of its products, from manufacturing to commissioning, use and elimination.

Meaning of logos present on the product or its packaging

The crossed-out dustbin sign stuck on the product or its accessories means that at the end of its life, the product is subject to selective collection and must not be thrown away in unsorted household waste.

The looped arrow sign means that the packaging may be recycled and must not be disposed of with household waste.

The green logo means that a financial contribution is paid to an approved national organisation to improve packaging recovery and recycling infrastructures.

The logo with three arrows shown on the plastic parts means that they may be recycled and that they must not be disposed of with household waste.

Product recycling and disposal

To facilitate recycling, please respect the sorting rules set up locally for this kind of waste.

If your product contains batteries, they must be disposed of at appropriate collection points.

European regulations ask you to dispose of products belonging to the family of electrical and electronic equipments ( ) selectively:

- At the collection points made available to you locally (drop-off centre, selective collection, etc.),
- At sales points in the event of the purchase of similar equipment.

In this way you can participate in the re-use and upgrading of Electrical and Electronic Equipment Waste, which can have an effect on the environment and human health.

European Directive on Waste Electrical and Electronic Equipment (WEEE)

In the context of sustainable development, the reduction of wastes to be eliminated by reusing, recycling, composting and energy recovery is strongly advised.

In order to comply with this directive which is applicable to EEEs sold after 13/08/2005, your recorder will be taken back free of charge and recycled by the distributor of the EEE within the limits of the quantity and types of equipment bought from them. These appliances which contain substances potentially dangerous to human health and the environment will be recycled.

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Directive on the Restriction of use of certain hazardous substances in electronic equipment (ROHS)

Your recorder along with the batteries supplied comply with the directive relating to the RoHS – dangerous materials such as lead, mercury or cadmium are not used. This avoids environmental hazards and any risks to the health of personnel at the recycling centres. The batteries of the remote control can be removed simply.

Note: When the batteries of the remote control are worn out, please dispose of them at a collection point and not with household waste.

Electrical consumption of the recorder

To reduce the consumption of your recorder, you are recommended to place it in standby mode when not in use. We recommend that you turn off the recorder or unplug it from the mains if you will not be using it for a prolonged period of time.

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4. Connecting your devices

Before installing your recorder:

- Please check that the delivery is complete (see section **Package contents**, page 5).
- Please ensure that the appliances to be connected together (recorder, TV set, VCR…) are unplugged before making any connections.
- Please ensure that Digital Terrestrial Television (DTT) is available in your area.

Connection to the terrestrial antenna

Very often to get the best reception, you may simply need to adjust your antenna. Alternatively, you can connect an indoor antenna to your system. For more information, please contact your specialised distributor.

Standard outdoor antenna

Preferably use an outside roof antenna that is designed to receive UHF channels (21 to 69). However:

- if your building is equipped with an old antenna model, digital channels may be difficult or even impossible to receive. The problem can only be resolved by changing the antenna.
- if your building is equipped with a common antenna which contains selective filters devised for analogue channels, reception will most probably not work correctly. In this case, you will have to contact the administrator of the building.
- some antennas directed towards an analogue TV transmitter must be re-adjusted towards a digital TV transmitter. If you encounter reception problems, you can also try placing the antenna at different heights.

Indoor antenna

In ideal reception conditions, this type of antenna is sufficient. Here, however, are some useful tips:

- use an antenna designed to receive channels 21 to 69.
- install the antenna close to the window and direct it towards the digital TV transmitter.
- if possible, use an antenna with an amplifier. The recorder can provide remote power supply to your indoor antenna (see section **Antenna Signal Information**, page 51).

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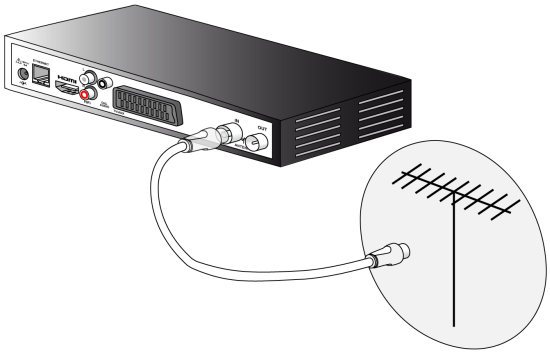
Connection to the antenna

Plug the antenna cable (not supplied) into the **ANTENNA IN** input connector on your recorder.

1. You can connect the RF output connector of your recorder to the antenna input of the television set or VCR/DVD recorder (cable not supplied).



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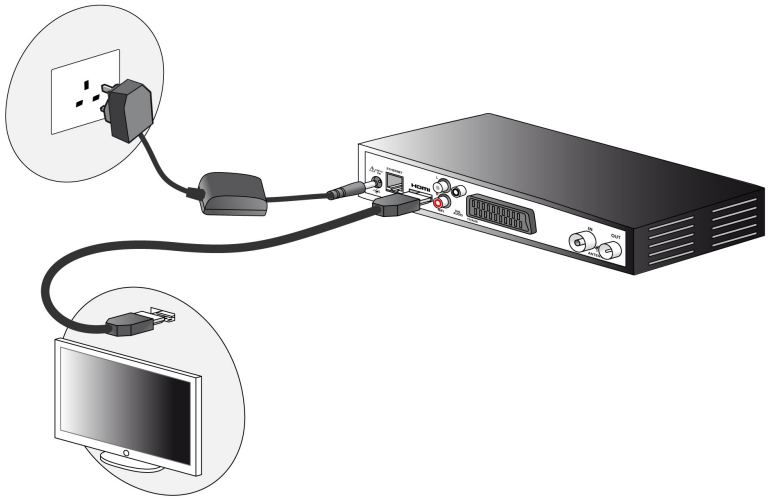
Connection to the TV set

Connection to a High-Definition television set using a HDMI lead

To take advantage of High Definition picture quality, you must connect the **HDMI** connector of your recorder to the HDMI connector on your television set (cable supplied).

1. To connect other devices to the recorder (VCR, home theatre cinema...), refer to the following pages.
2. Connect the power adapter to the power cable. Then, connect the power cable into the 12V connector on the recorder.
3. Plug the power cord into the wall socket.



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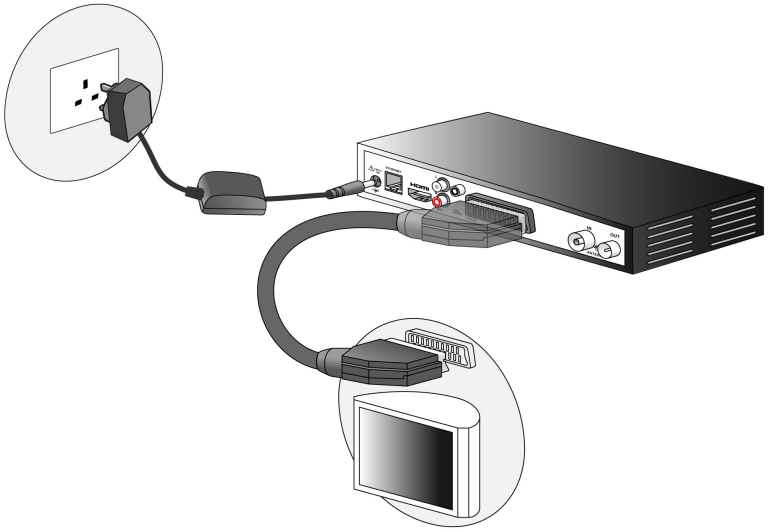
Connection to a Standard-Definition television set

You must connect the television set to your recorder using a SCART connector (not supplied).

1. To connect other devices to the recorder (home theatre cinema...), refer to the following sections.
2. Connect the power adapter to the power cable. Then, connect the power cable into the 12V connector on the recorder.
3. Plug the power cord into the wall socket.



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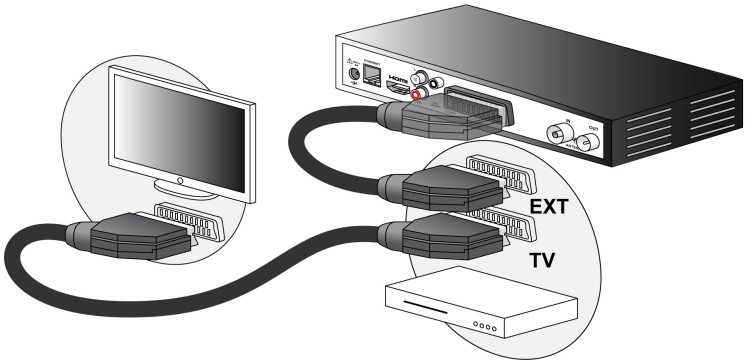
Connection to a VCR/DVD recorder

See the diagram below to connect your recorder to a VCR/DVD recorder.



Note

If your VCR/DVD recorder has more than one SCART connector, choose the TV or EXT1 socket.

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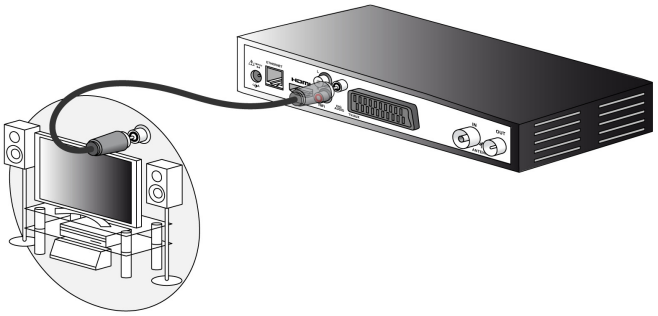
Connection to a home theatre system

Some programmes are broadcast with a high quality multichannel digital sound. The connection of your recorder to a home theatre system will give you a cinematic surround sound experience when watching these programmes.

This can easily be done by connecting with a coaxial cable (not supplied) the **DIGITAL AUDIO** output of your recorder to the digital audio coaxial input of your home theatre amplifier

Dolby® Digital Plus is one of the latest innovations of Dolby Laboratories in high quality digital audio. Compatible with Dolby Digital systems, it addresses the expectations of most demanding viewers, and is scalable to the diverse world of content delivery, such as, for instance, High Definition TV broadcast.



Note

For more information, please visit the following website:
http://www.dolby.com/consumer/setup/index.html

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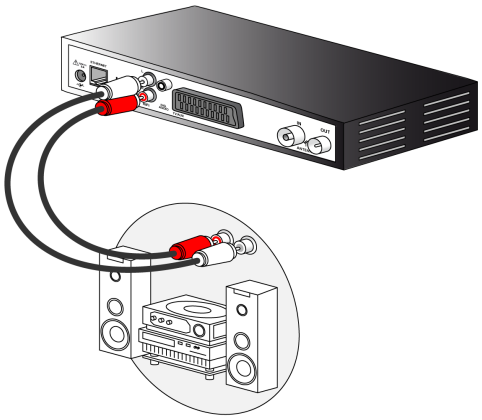
Connection to a hi-fi unit

To make the most of the digital quality sound and listen to radio channels with the TV turned off, just connect the right and left audio outputs of the recorder to the auxiliary input of your hi-fi system (cable not supplied).



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5. Before starting

Conventions

How to access main menu

Press the M **MENU** key.

How to access a feature

You can access some features using the remote control as well as the main menu.
When the two access possibilities are available, the corresponding procedures are proposed.

How to navigate through the various screens and set parameters

Use the remote keys:

- ▲ and ▼ to highlight your selections in the menus tree,
- ◀ and ▶ to select the required parameter if proposed in the current screen,
- OK **OK** to confirm, and
- ⊗ **EXIT** to exit the screens.

Menus presentation

To ease the reading, the way to access a menu is described in this manual as follows:

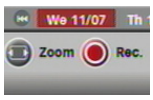
M **MENU** > **Menu** > **Submenu**

For example, when you read "Go to M **MENU** > **User settings** > **Locking**", you must do the following actions with your remote control:

1. Press the M **MENU** key to access the main menu.
2. Press the ▼ key to select **User settings**, then validate with the OK **OK** key.
3. Press the ▼ key to select **Locking**, then validate with the OK **OK** key.

Controls presentations

The controls displayed on the screen are indicated as follows:



-> **[Rec.]**

Menus tree

The tree below introduces the receiver menus:

- **Recording timers**
- **Recording list**
- **Favourite lists**
- **Electronic Programs Guide**
- **User settings**
  - **Language settings**
  - **User preferences**
  - **Locking**
  - **Change of parental code**
- **Receiver settings**
  - **Automatic channel search**
  - **Manual channel search**
  - **Video settings**
  - **Audio settings**
  - **Network settings**
  - **Reset factory default**
- **Media** (*)
  - **Audio player**
  - **Media List**
  - **Photo player**
  - **Play List**

(*) Displayed only with USB storage device connected

- **Technical information**
  - **Antenna signal information**
  - **Product data**
  - **HDD information**
  - **Support & Help**
- **Radio channel list**

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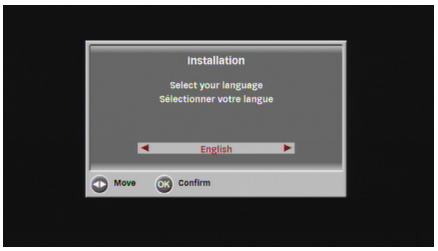
6. Running your first installation

Once the recorder is physically connected, you need to go through the setup procedure to get your FREEVIEW channels.

1. Switch on your TV.
2. Press the **Standby** button on your remote control to wake the recorder up from standby mode. The first installation screen should appear.

Language Selection

3. Select your language with the ◀ or ▶ key.
   Press the OK key to continue.

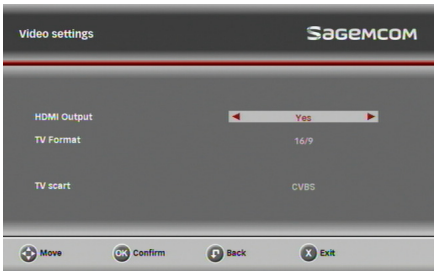


Country Selection

4. Select your country with the ◀ or ▶ key.
   Press the OK key to continue.

Video Settings

5. Select the settings better suited to your needs. Use the up and down keys to highlight a setting, use the left and right arrows to select a value.
   - **HDMI Output**: If your TV set is connected to the recorder with an HDMI cable, select YES. If you have a standard TV set, select NO.
   - **TV Format**: select the display mode for your TV: 16/9 (widescreen TV), 4/3 (Traditional TV) or Auto (programme format will be respected - 16:9 or 4:3).
   - **TV SCART**: select the video standard (RGB, CVBS) for the TV output.
6. Press the OK key to continue.



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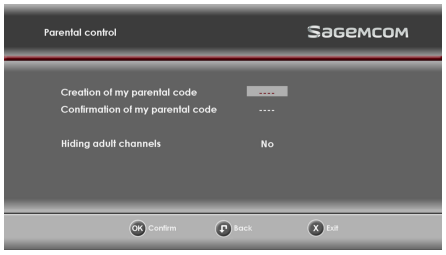
Parental code

7. Enter a parental four-digit code using the remote control (0000 is not accepted).
8. Enter the same code to confirm it.
9. To hide adult genre channels, select **Hiding adult channels** and set it to **Yes**.

   Press the OK key to continue.



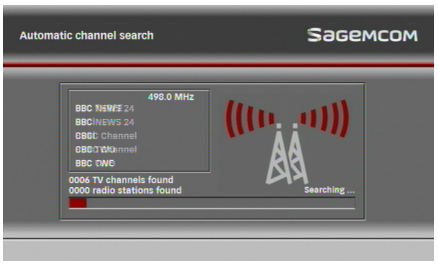
Note

The parental code is used to lock access to the recorder and channels. Make sure you remember it for future use. You can change the code at any time (see section **Changing your Parental code**, page 47).

Channel Search

10. The recorder automatically searches for available FREEVIEW TV and radio channels.

    Press the OK key to save the channels found.



Note

If the recorder cannot find any channels, you will be asked to adjust the antenna. Select **Yes** to view the reception strength and quality of the antenna signal. Check the antenna cable connections.

When the signal level is satisfactory, press the key to resume the installation.

If the level and quality of reception remain insufficient, contact your antenna installer.

You recorder is now set. You can start watching and enjoying all your FREEVIEW channels.

Should any problem that prevents you from completing the installation arise, please contact your retailer or the Sagemcom Hotline.

UK Hotline: 08450 900 316

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7. Your receiver's main commands

Selecting a TV channel

Using the keys PROG+ and PROG-, or keys 0-9

Press **PROG+** or **PROG-** on your remote control to change channel or enter its number on the numeric keypad to switch to the channel you want.

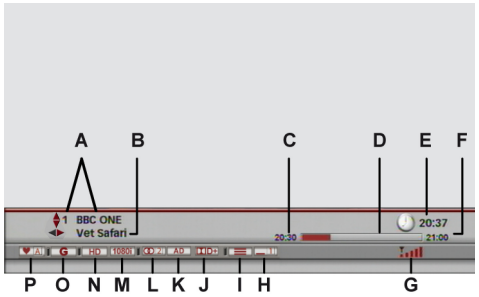
Using the channel list

1. Press the OK key to display the channel list
2. Select your channel then press the OK key again to confirm.

Programme information banner

Each time you switch channels, the information banner appears onscreen. You can also display it by pressing the i key once while watching a programme.

You can set the display time of the information banner in your User Preferences (see section **Setting your User preferences**, page 45).



- **A :** Channel number and name
- **B :** Name of programme
- **C :** Start time of programme
- **D :** Elapsed time
- **E :** Current time
- **F :** End time of programme
- **G :** Signal level
- **H :** Number of subtitle languages available
- **I :** Teletext service available
- **J :** Dolby or Dolby + audio output information
- **K :** Audio description available
- **L :** Multiaudio available
- **M :** Programme resolution
- **N :** Programme broadcast in HD
- **O :** Parental Guidance
- **P :** Favourite list

Note

The availability and accuracy of the programme information depend on the channel broadcaster.

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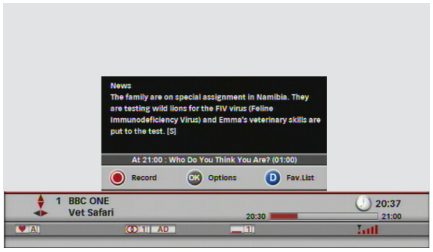
Detailed programme information

If you want more information on the current and following programme, press the i key twice while watching a programme to display the extended information banner.

The following actions are available:

Use this key...	To...
◀ / ▶	view information on the next/current programme
▲ / ▼	see information on the current/next programme on other channels
OK	switch to the selected channel
i or ⊗	hide the extended information banner


News
The family are on special assignment in Namibia. They are testing wild lions for the FIV virus (Feline Immunodeficiency Virus) and Emma's veterinary skills are put to the test. [S]
At 21:00 : Who Do You Think You Are? (01:00)
Record
Options
Fav.List
1 BBC ONE
Vet Safari
20:37
20:30
21:00

Selecting a Radio channel

To select a radio channel:

- press the ♫ key to switch to RADIO mode, or
- go to M **MENU** > **Radio channel list**.

The following actions are available:

Use this key...	To...
▲ / ▼	select a radio channel.
OK	switch to the selected channel.
i or ⊗	exit the RADIO mode and switch back to TV mode.

Adjusting the audio volume

- **Volume**: Use **VOL+** and **VOL-** to turn the volume up and down.
- **Mute mode**: Use the 🔇 key to turn the sound off. Press the same key again to turn the sound back on.

Note

These operations do not affect the sound on the Scart socket if you set it to Recorder mode (see section **Picture settings**, page 49).

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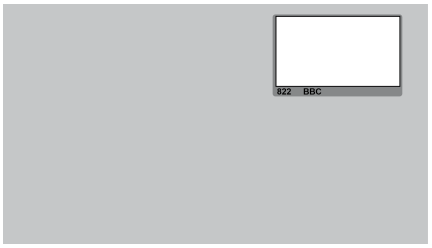
Using the Picture in Picture (PIP) feature

This feature allows you to watch a program on the full TV screen and to display at the same time another program in an inset window.

Note that the sound is from the main program only.

To use the PIP feature, press the key.
An inset window is displayed.



The following actions are available:

Use this key...	To...
◀ ▶ ▲ ▼	move the PIP window in the main window.
+ PROG -	change channel.
	activate/deactivate the PIP feature.

Changing the favourites list

You can create and manage favourite channels lists in the **Favourite lists** menu (see page 47).

To switch from one channel list (main channel list included) to an existing favourite list:

- press the i key twice to display the detailed information banner,
- press the **blue** D key to switch to the next available favourite list.

Repeat this operation until the favourite list of your choice is selected, or to return to the main channel list.

Temporarily selecting audio languages and subtitles

Note	
	All modifications take place immediately. However, temporary adjustments are not retained when you change channel.

While watching a programme, press the i key once to display the programme information banner. Press the OK key to display the options banner.

You can also display the audio tracks, subtitles or audio description screen by pressing the key.

Use the ◀ ▶ ▲ or ▼ key to select your settings then press the OK key to confirm.

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Activating and Using Audio description

If you want to use the Audio description feature, activate it first in your User Settings (see section **Setting your language options**, page 45). Programmes providing this service will be broadcast in the selected audio preferred language if available.

You can then use the AD key to temporarily deactivate the audio description feature, change the language and adjust the audio description volume. **Please note** that the AD key will only respond if the audio description is activated in the **User settings**.

Teletext and interactive services

Whenever Teletext or interactive services are available (news, local weather information, etc.), an invitation to press the red key appears on screen.

You can then press the key on your remote control to access available services.

You can then browse the services, teletext pages and local information available following the onscreen indications.

Temporarily selecting display formats

Note	
	All modifications take place immediately. However, temporary adjustments are not retained when you change channel. This feature is only available if you connected the recorder to an HD TV set via the HDMI connector.

Press the key to toggle between the display formats available for the programme you are watching: **4/3** or **Full screen**.

Electronic programme guide

The electronic programme guide displays programme information for all available channels (depending on the information provided by channel broadcasters). You can also record programmes directly from the electronic programme guide (see section **Recording programmes from the Electronic programme guide**, page 32).

To access the Electronic Programme Guide:

- press the key, **or**
- go to **MENU** > **Electronic Programs Guide**.

You can PIN-lock access to adult genre using the parental control feature (see section **Receiver Locking and Parental control options**, page 46).

To help you navigate in the electronic programme guide, a vertical line shows the current time.

The following actions are available:

Use this key...	To...
red A	toggle between the **Grid** and **List** display modes
◀ ▶ ▲ ▼	select a channel/programme. You can also directly enter the channel number on the remote control
[Info]	see extended information on a programme
OK	zap to a selected channel
⏮ ⏭	jump to the next/previous day
[Record]	record a programme that is currently broadcast (see section **Recording programmes from the Electronic programme guide**, page 32 for more information on this feature)
green B **[Schedule]**	schedule the recording of a future programme (see section **Recording programmes from the Electronic programme guide**, page 32 for more information on this feature)
blue D **[Filter on]**	see programme information for a specific genre on all available channels
yellow C **[Search]**	search for a specific programme based on its genre or its title
	go back to the current programme and channel information
	exit the electronic programme guide

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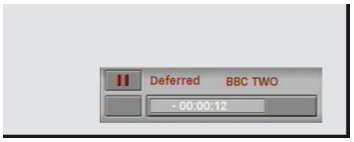
Live mode/Deferred mode

The recorder automatically saves the previous minutes of the channel that is watched (last 60 to 120 minutes depending on the signal characteristics).

This sliding recording mode makes it possible to stop live mode, rewind and review the programme that was recorded moments before.

Press the ◀◀, ▶▶, ⏸ and ▶ keys to enter the time shift recording.

A banner with the Deferred/Live time shift is displayed on the screen.



Pause / Play

- You can pause a programme without missing what's next by pressing the ⏸ key.
- To resume the current programme where you left it, press the ▶ key.

Rewind

- You can rewind by pressing the ◀◀ key.
- You will then see the Deferred/Live delay increase. By pressing the key several times, you can increase the rewind speed (up to 300 times the normal speed).
- Therefore, it is possible to rewind 1 or 2 hours. Please note that to do so, the current programme must have been watched for that period of time at least.

Fast forward

- You can fast forward by pressing the ▶▶ key.
- You will then see the Deferred/Live delay decrease. By pressing the key several times, you can increase the fast forward speed (up to 300 times the normal speed).
- If you remain in fast forward, you will finish by reaching the live programme.

Stop

You can exit the Deferred mode at any time and go back to the live programme. To do so, press the ■ key.

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8. Video Recordings

The recording capacity of your recorder depends on the selected programme. On average, one hour of recording requires from 1 GB (SD programme) to 2.5 GB (HD programme) of hard disk space.

You can simultaneously:

- record a programme and watch another programme,
- record 2 programmes and watch any of them.

In the same way, you can simultaneously:

- watch a programme in deferred mode while recording another programme,
- watch a recorded programme and record one or 2 programmes.

Please note if MHEG services are available on the programme you are recording, they will be discarded.

Immediate recording (Live or Deferred programme)

To record a live programme:

1. Select the desired channel.
2. Press the ● key:
   - The name of the channel channel being recorded is displayed on the screen.
   - The recorder will by default record the programme until its announced end time.
   - You can then change channel without the recording being affected.

To stop a recording: press the ■ key.

To record a programme that you have been watching for a certain time
(1 to 2 hours maximum):

1. Enter the deferred mode using the ◀◀ ▶▶ ❚❚ and ▶ keys.
2. Press the ● key when you want to start recording.

Note	
	You can then put the recorder in standby: the recording will stop automatically at the end of the recording time.
	When recording in deferred mode, the recorder can add a few seconds of video at the beginning.
	Once a recording is launched, you can no longer rewind before the start time.

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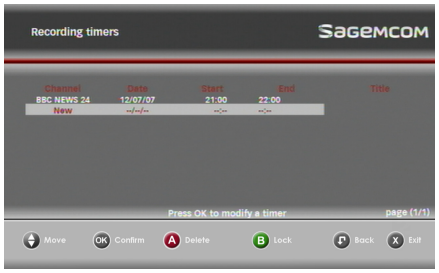
Recording programmes from the menu

To record programmes:

Go to M **MENU** > **Recording timers**.

The event timer screen shows the list of your scheduled recordings.

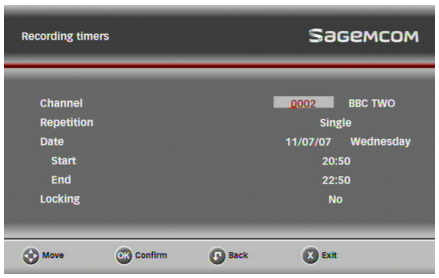


There are two types of recordings:

- recording scheduled from the EPG (the last column displays the programme name),
- recordings that you schedule manually (the last column displays the 'Timer' mention).

Scheduling a recording manually

To manually schedule a recording:



1. Select a blank **New** line and press the OK key. An edition screen appears allowing you to select your recording options.
2. Select the **Channel** to record.
3. Select the recording **Repetition**:
   - **Single**: only once at the scheduled time.
   - **Weekly**: once a week at the scheduled time.
   - **Daily (Mon-Fri)**: at the scheduled time, every day from Monday to Friday.
   - **Daily (Mon-Sat)**: at the scheduled time, every day from Monday to Saturday.
   - **Daily (Mon-Sun)**: at the scheduled time, every day and every week.
4. Enter the recording **Date**.
5. Enter the recording **Start** and **End** time.
6. If you want to PIN-lock access to the recording from the recording list, set **Locking** to **Yes**. Locked recordings are hidden in the Recording list (see section **Accessing Locked Recordings**, page 33).
7. Confirm the schedule by pressing the OK [**Confirm**] key.

Editing scheduled recordings

To modify an existing scheduled recording, just select it in the list and press the OK key: the edition screen then appears allowing you to modify the recording options. Please note that changing the repetition cannot be undone.

Note	
	Editing a recording scheduled from the EPG is possible, but by doing so, you will lose all automatic information update (automatic reschedule, series recording, etc.). We recommend that you delete instead the event in the Recording Timer list and reschedule the recording from the EPG.

Recording programmes from the Electronic programme guide

The advantage of recording from the electronic programme guide is that you can record specific programmes instead of choosing channel time slots. You can only do this if the programme information is provided by the channel broadcaster.

By default, the recorder records a programme based on its announced time. To avoid missing parts of the programme, you can customise timers margins in your User Preferences (see section **Setting your User preferences**, page 45).

To record programmes:

1. Press the key.
2. Select the channel and programme you want to record.
3. Press the [**Record**] key to schedule the recording of the selected programme.
   The programme cell (grid mode) or name (list mode) become red and the icon is added in the summary field.
4. Repeat the operation for all the programmes you want to record.
   - If a recording is conflicting with another recording (scheduled at the same time), the recorder will ask you to resolve the schedule conflict.
   - If the programme you want to record is part of a series (symbolised by a multipage icon above the programme start time), the recorder will ask if you want to record the single episode or all announced forthcoming episodes.
5. To cancel the recording of a programme, press the [**Record**] key again.

The scheduled recordings appear in the Timer list, as **Once** or **Series** depending on your repetition choice.

Please note that if you edit a recording that has been scheduled from the EPG, you will lose all automatic information update made available by the EPG (automatic reschedule, series recording, etc.).

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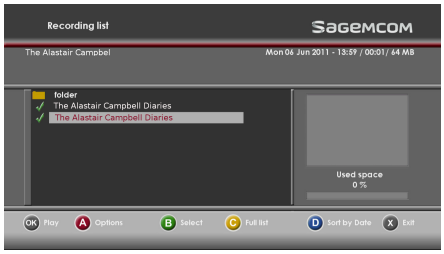
Recording List

To access the recording list:

1. Press the key, or
2. Go to **MENU** > **Recording list**.



You will be able to create folders to organise your recordings, and control the disk space available:

- The left panel displays the existing folders, and the programmes you recorded (locked recordings excluded).
- Highlight a recording using the navigation arrows, then press the OK key to play it.
- Depending on the genre of the recorded programme, you may be asked to enter the parental PIN-code before you can play it.

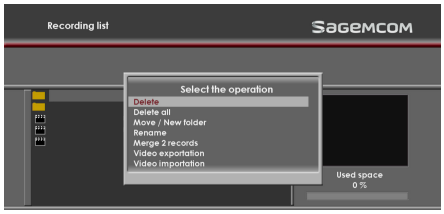
The following actions are available in Play mode:

Use this key...	To...
	move in the recorded programme
	stop and return to the list
	exit this menu

Accessing Locked Recordings

- If you want to access the complete list of recordings, and view therefore the recordings you PIN-locked, press the **yellow** [**Full list**] key. You will be asked to enter the parental PIN-code before you can view them.
- Press the **yellow** key again to switch back to the restricted list of recordings.

Managing the Recording list



Keys and icons used

Action keys

The coloured keys let you manage the recording list and offer you the following actions:

Use this key...	To...
red A **[Options]**	select an operation
green B **[Select]**	select the highlighted recording
blue D **[Sort by ...]**	sort the recordings by date or name

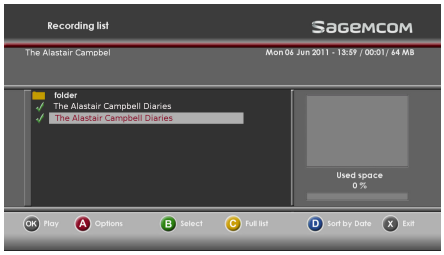
Meaning of the icons used

This icon...	Represents...
	folder(s)
	recording(s) viewed
	recording(s) unviewed
	recording(s) selected

Selecting recorded programmes

You can work with several recordings at the same time. To handle several files simultaneously, it is preferable to select them beforehand.

To select several recordings:



1. Highlight one recording.
2. Press the **green** B **[Select]** key.

   The ✓ icon appears next to the recording.
3. Perform the same action to select other recordings.
4. Once all the desired recording are selected,

   press the **red** A **[Options]** key to access the recording management menu.

Note

The operations described in this section apply to recordings and folders.

Sorting your recordings

Press the **blue** D [**Sort by ...**] key to sort your recordings by date or name.

Creating folders

You can create folders to organise your recordings.

1. Press the **red** A [**Options**] key.
2. Select **Move / New folder** and validate with the OK key.
3. Press the **green** B key to create a new folder.
   A capture screen appears.
4. Use the ◀ key to delete the default name, then enter the desired name using the numeric keypad on the remote control.

Note

All folders created will be saved at the root of the hard disk. You can not create a folder in a folder.

Use alphanumeric characters (letters and numbers) when naming folders. Do not use special characters. Accepted signs are ".", "_" and "-".

5. Press the OK key to confirm the creation.

Moving recordings in an existing folder

1. Press the **red** A [**Options**] key.
2. Select **Move / New folder** and validate with the OK key.
3. Use the ▲▼ keys to select the new location.
4. Press the **yellow** C key to start transfer the selected recording(s).
5. Press the OK key to confirm.

Erasing recordings

1. Select the recording(s) or folder(s) you want to erase with the **green** B [**Select**] key.
2. Press the **red** A [**Options**] key.
3. Select **Delete** and validate with the OK key.
   A warning message appears for each item to erase.
4. Press the OK key to confirm.

Note

Choose **Delete all** to erase all recordings.

Renaming recordings

1. Select with the **green** B [**Select**] key the recording or folder you want to rename.
2. Press the **red** A [**Options**] key.
3. Select **Rename** and validate with the OK key.
4. Use the ◀ key to delete the existing name, then enter the desired name using the numeric keypad on the remote control.

Note

Use alphanumeric characters (letters and numbers) when naming folders. Do not use special characters. Accepted signs are ".", "_" and "-".

5. Press the OK key to confirm.

Merging recordings

You can merge two recordings to create one single recording.

1. Select the first recording and press the **green** B [**Select**] key.
2. Select the second recording and press the **green** B [**Select**] key.
3. Press the **red** A [**Options**] key.
4. Select **Merge 2 records** and validate with the OK key.
   A confirmation message appears onscreen.
5. Select **Yes** and press the OK key to confirm.

The merged recording will carry the title of the second recording.

Exporting recordings (with USB storage devices only)

1. Select the recording(s) to export.

Note

Only **SD** recordings can be exported.

2. Press the **red** A [**Options**] key and choose **Video exportation**.
   The USB tree appears onscreen.
3. Choose the location required and then:
   - press the OK key to export the recording(s) selected, or
   - press the **green** B key to create a new folder
     For more details, see section **Creating folders**, page 35.
4. Select **Yes** and press the OK key to confirm.

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Importing recordings (with USB storage devices only)

1. Select the recording(s) to import.
2. Press the **red** A [**Options**] key and choose **Video importation**. The USB tree appears onscreen.
3. Select the recording(s) location in the USB tree.
4. Press the **yellow** C key to confirm.

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9. Multimedia interface

The receiver allows you to view, play and manage media files stored on compatible mass storage devices.

The Media Manager (multimedia application of the receiver) enables you to:

- view and manage your photo files,
- play and manage your audio files,
- create and manage photo slideshows, audio playlists and mixed playlists,
- customise the display and playback options of the media files.

Accessing the Media Manager

To access the media manager:

- Insert a USB storage device in the USB port of the receiver when you are watching the television (see section **Connection to the TV set**, page 15): the media manager is automatically displayed onscreen, **or**
- Go to **MENU** > **Media**.

The receiver then displays the selection window of the devices available.

You can at any time exit the selection window of the media list and return to the channel viewed earlier by pressing the key.

Navigating in the Media Manager

The Media Manager displays the contents of the selected device, as well as information concerning the use of the storage space.

- Use the ▲ or ▼ key to browse the files and folders in the device.
  If you have more than twelve files or folders use the ◀ and ▶ keys to navigate within the pages.
- A preview and information relating to the file are displayed in the right-hand side window when a media file or a folder is selected and highlighted.
- Press the key to display information on the actions available, the key to return to the previous screen or the key to exit the Media Manager and return to the channel being viewed earlier.

When, in a folder, you have several file formats (photo, audio), you can select a display mode for the contents.

Press the **yellow** C [**Mode**] key and select with the ▲ or ▼ key the desired display mode:

- **Audio player**: display audio files (mp3),
- **Media List**: display all files in the folder,
- **Photo player**: display image files (jpg),
- **Play list**: display the files of an existing playlist.

Press the OK key to confirm the desired view.

Managing contents

Press the OK key to confirm the selection of ah highlighted media file or folder.

Selecting recordings

To...	Proceed as follows...
select several files and/or folders which are not continuous	Select them and press the **green** B [**Select**] key for each selected element. Selected elements appear with the ✓ icon.
select a series of files and/or folders which are continuous	**1.** Select the first element of the series then press the **green** B key, **2.** Hold for more than two seconds, **3.** Select the last element of the series then press the **green** B key. All the elements located between the first and the last of the series are selected.
unselect an element	Press again the **green** B key.

Available actions

You can then carry out the following operations:

To...	Proceed as follows...
copy, **delete** or **move** the selected elements	Press the **red** A [**Options**] key and follow the instructions displayed on the screen. This command enables you to copy or move files to another location within the same device, or from one device to another (for example: external USB device to the hard disk of the receiver). It also enables you to create new destination folders. **Note**: Do ensure that the destination device has sufficient disk space before transferring your data.

To...	Proceed as follows...
rename a selected element	**1.** Press the **red** A **[Options]** key. The **Select the operation** window appears, **2.** Select **Rename** using the ▲ or ▼ keys and confirm with OK, **3.** Use the ◀ key to erase the name of the element, then use the keys of the numeric keypad of the remote control to enter the name. For example, to enter the letter "a", press once the 2 key, to enter the letter "b", press twice quickly the key 2, and so on. **Note**: Always use alphanumeric (numbers and letters) characters when you re-name files and/or folders. Do not use special characters. The accepted signs are ".", "_" and "-".

Viewing and managing photo files

Viewing photo files

From the explorer, use the ▲ or ▼ keys to browse the contents of the hard disk of the receiver or the connected device.

To...	Proceed as follows...
Display a photo in full screen mode	Select the photo file and press the OK key.
Display the photo files in thumbnail mode	Press the **yellow** C **[Mode]** key, select the **Photo player** display mode and confirm with the OK **[Confirm]** key.
Browse through the photo files in thumbnail mode	Use the keys ◀, ▶, ▲ and ▼
Move from one page to another	Use the ⏮ and ⏭ keys
Display a photo file in **full screen** mode	Select it and press the OK key.
Launch a slideshow of the displayed photo files	Press the ▶ key. You can stop the slideshow by pressing the ■ key.
Customise the slideshow options	See section **Advanced options**, page 44.
Listen to a radio channel or a customised audio playlist while viewing or managing your photo files	Press the ♫ key (see section **Playlists**, page 42).
To display help	Press the ? key.

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Managing photo files

Select the photo files which you wish to manage.

To **delete**, **copy** or **move** the photo file selected, press the **red** A key and follow the displayed instructions on the screen (see section **Managing contents**, page 39).

Editing photo files

Select a photo file and press the OK key to display it in full screen mode.

Use the key...	To...
	display the **Help** screen.
◀ / ▶	browse through the image files, move the focus of an image after a zoom.
	display the name of the file, the date when the photo was shot, the format and the location in the folder.
	start the slideshow.
	choose a radio station for accompaniment.
green B	zoom on the photo displayed on the screen.
yellow C	turn the photo 90° in an anti clockwise direction.
blue D	turn the photo 90° in a clock wise direction.
	return to the previous screen.

Playing and managing audio files

Playing audio files

To play an audio file, select it and press the OK key. When the audio file reaches its end, the Media Manager automatically plays the next available audio file located in the same folder. To customise the order in which audio files are played,see section **Advanced options**, page 44.

From the Media Manager, the following options are available:

Use the key...	To...
▲ and ▼	browse through the contents of the connected USB device. If you only wish to display the audio files (mp3), press the **yellow** C [**Mode**] key and select the **Audio player** display mode.
	pause the audio file that is playing.
	resume.
	stop playing the audio file
and	play the previous or next audio file.

Managing audio files

You can manage your audio files using the Media Manager.

- To return to this screen, press the **yellow** key and select the **Media List** view.
- Select the audio file(s) which you wish to manage.
- To **delete**, **copy** or **move** the selected audio file(s), press the **red** key and follow the instructions displayed on the screen (see section **Managing contents**, page 39).

Editing audio files

You can edit your audio files and add/modify the following properties: artist, album, title, genre.

1. Select the audio file to edit.
2. Press the key to display the information box.
3. Use the keys ▲ and ▼ to select the properties to modify.
   - Press the OK [**Edit**] and enter your modifications using the numeric keypad of the remote control.
   - Press the OK key to confirm the modifications.

Playlists

The Media Manager allows you to create and manage customised photo slideshows, audio playlists and photo-audio playlists.

Creating and modifying a playlist

In the Media Manager:

1. Select the folder to save your playlist.
2. Press the **yellow** [**Mode**] key and select the view mode **Play List**.
   The playlist edit screen is displayed.

To add a media file:

1. Select it in the left panel and press the OK key.
   The file then appears in the playlist, displayed in the right panel.
2. Press the **yellow** [**Save**] key to save your playlist once it is composed.

3. Use the ◀ key to erase the default name, enter the name of your choice using the numeric keypad of the remote control then confirm with OK.

Note

Always use alphanumeric (numbers and letters) characters when you re-name files and/or folders. Do not use special characters. The accepted signs are ".", "_" and "-".

The playlist appears in the left panel, with the extension .m3u.

To delete a media file from the playlist:

Select it in the right panel and press the **red** A key.

To insert a media file into a particular location in the playlist:

1. Select the desired file then press the **blue** D key.
2. Select the desired position in the right panel then press the D key.
3. Press the **yellow** C [**Save**] key to save any modification made to a playlist.

To edit a playlist:

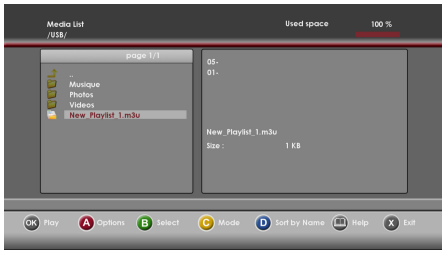
1. Go to the **Play list** display mode.
2. Select the list to be edited in the right panel.
   The corresponding files are displayed in the left panel.

Launching a playlist

Select the playlist from the Media Manager and press the OK key.

Depending on the composition of the playlist, the Media Manager launches:

- an audio playback if the playlist contains only audio files,
- a slideshow if the playlist contains only photo files,
- a slideshow with audio playback as musical background if the playlist has mixed content.



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Advanced options

In the Media Manager, press the M key to access the options menu.

To return to this screen, press the **yellow** key and select the **Media List** display mode.

The Media Manager allows you to customise the following options:

- **Audio Play mode**: set the manner in which the Media Manager plays audio files, track by track or in random mode.
- **Slide Show Loop**: set the manner in which the Media Manager displays the slideshows.
- **Display time**: set the display time of the photos in a slideshow.
- **Help banner**: display or hide the help banner which appears by default while viewing a photo in full screen mode.

Use the ◀ ▶ ▲ and ▼ keys to select and set the desired options. Press the OK key to confirm changes.

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10. Adjusting the installation parameters

Note

To see the menus tree and kwow how to navigate through the various screens, see section **Before starting**, page 20.

User settings

To access the user settings screen, go to **MENU** > **User settings**.

Setting your language options

To set your language options:

1. Go to **User settings** > **Language settings**.
2. Select the menu language, audio language and subtitle language you want.
   Programmes will be broadcast in the selected audio language, provided it is available. Your choice of subtitle language will be applied if available.
3. You can also activate the audio description and subtitles for the deaf and hard of hearing features.
   Programmes providing these services will be broadcast in the selected audio main language if available, and in the selected subtitle main language if available.

Setting your User preferences

To set your user preferences:

1. Go to **User settings** > **User preferences**.
2. Define the parameters as follows:

- **Banner time-out**: to set how long you want the zapping and information banners to stay onscreen.
- **Volume bar time-out**: to set how long you want the volume bar to stay onscreen when you turn the volume up, down, or mute it.
- **Skip value**: to define the value in minutes when you want to skip to the next or previous track (music title, chapter of the film, etc.).
- **Network monitoring**: by activating this feature, you will be automatically informed when any new channel or service become available.

- **Recording Type**: By default, the receiver records programmes based on their announced time. This recording mode is identified as programme type.
  You can programme recording margins which will be automatically added to the recordings carried out via the electronic programme guide. You can thus set the receiver so that it starts to record a programme before its announced start time, and stops after its announced end time.
  To activate this feature:
  - Just set the recording type to **Timer**.
  - Select the desired starting and ending times (0,1,2,5, 10 or 15 minutes).

Note

In **Timer** mode, the series recording function is not available.

- **Sleep Timer**: you can set the receiver to automatically switch to standby mode at a specific time.
  If you activate this feature:
  - In **Sleep Timer** field, select **Active**.
  - Set the desired **Sleep Time** in 24H format (HH:MM).

Receiver Locking and Parental control options

1. Go to **User settings** > **Locking**.
2. Define the parameters as follows:

Receiver locking

You can lock access to the receiver. If you activate the receiver lock, you will need to enter the parental code every time you switch the receiver on, or want to access the receiver menus (Receiver settings, Channels, etc.).

Channel locking

You can lock access to specific channels. If you activate the channel lock, you will need to enter the parental code every time you switch to a locked channel.
To set the list of channels you want to lock, select **Channels to lock** and press the OK **[Locking]** key. You can then select/unselect the channels of your choice by pressing the OK **[Locking]** key.

Hiding Adult channels

This feature lets you hide adult genre channels. If you activate this feature, all adult genre channels will be hidden: you will not be able to switch to an adult genre channel, or browse this category in the electronic programme guide.

Use this feature to protect your children from this type of exposure.

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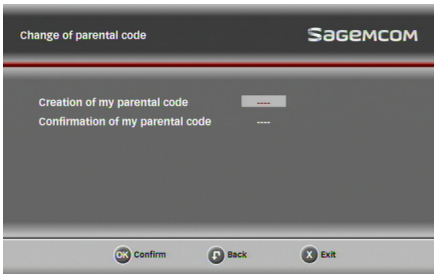
Changing your Parental code

The parental code is initially defined during the first installation, and is used to lock access to the receiver and channels.

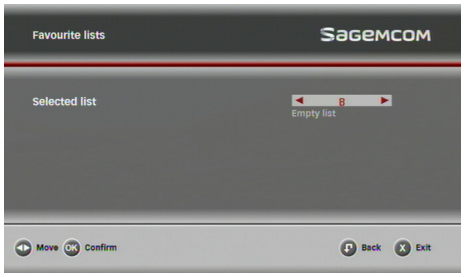
1. Go to **User settings** > **Change of parental code**.
2. To change your parental code, enter the current four-digit code using the remote control.
3. Then enter your new parental code and confirm it (0000 is not accepted).



Creating and managing favourite lists

To access the favourites settings screen:

1. Go to (M) **MENU** > **Favourite lists**.
2. Select an empty list (list **B** to **D**) and validate with the (OK) [**Confirm**] key.



3. Select the type of lists you want to create: **TV** or **Radio** list.
   An edition screen appears.
4. Highlight a channel in the All channels list and press the **blue** (D) [**Add**] key to add it into your favourite list.
5. The following actions are available:
   - To remove a channel from the favourite list, use the **red** (A) [**Delete**] key.
   - To move a channel within the favourite list, use the **green** (B) [**Insert**] key.

   - To save your favourite list, press the **yellow** (C) [**Save**] key.
   - To edit or empty a list of favourite channels, select it and carry out the desired modifications.

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Receiver settings

To access the receiver settings screen, go to M **MENU** > **Receiver settings**.

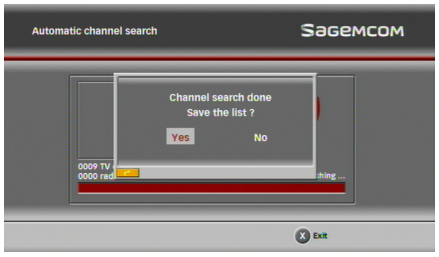
If the receiver lock is activated, enter your parental code (to change your parental code, see section **Changing your Parental code**, page 47).

Searching for channels

This menu lets you search for all available FREEVIEW channels and update the channel list.

1. Go to **Receiver settings** > **Automatic channel search**.
2. Press the OK key to launch the channel search. A bar shows you the search progress.

3. Once the search is complete, select **Yes** and press the OK key to save the channel list.



Searching manually for channels

This menu lets you manually search for a specific channel, on a specific frequency or with a specific modulation.

1. Go to **Receiver settings** > **Manual channel search**.
2. Set your search criteria: enter a channel number (21 to 69), a frequency, or select a modulation.
3. Press the OK **[Confirm]** key to launch the channel search.

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Picture settings

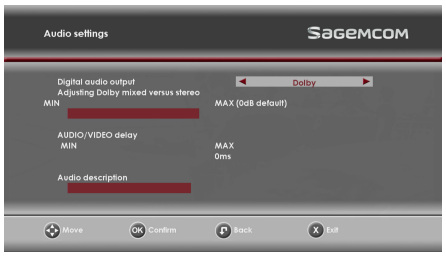
1. Go to **Receiver settings** > **Video settings**.
2. Check the manuals of your video equipment to know what settings you need.

- **HDMI Output**: If your HD TV set is connected to the receiver with an HDMI cable, select YES. If you have a standard TV set, select NO.
- **HD Resolution**: select the output resolution for your HD TV set (1080i, 720p or 576p).
- **TV Format**: select the display mode for your standard TV set: 16/9 (widescreen TV), 4/3 (Traditional TV) or Auto (programme format will be respected - 16:9 or 4:3).
- **Video resizing**: if your standard TV format is 4/3, select the desired resizing mode: Pan & Scan or Letterbox.
- **SCART**: If you connected your standard TV set to the receiver with a Scart cable, select TV mode. If instead, you connected a DVD receiver to the Scart connector, select the receiver mode. In TV mode, audio volume changes and onscreen messages will be sent to the TV set. In Receiver mode, none of these operations are sent to the external recording device so that they do not affect your recordings.
- **Video Standard**: select the video standard (PAL or S-Video) best suited for the TV/AUX output.

Audio settings

Check the manuals of your audio equipment to know what settings you need.

1. Go to **Receiver settings** > **Audio settings**.
2. If you have connected your receiver to a home theatre cinema via the Digital audio connector, set **Digital audio output** to **Dolby**. Otherwise, leave it to **Stereo**.
3. If the audio volume varies noticeably between programmes because of the audio type broadcast (Stereo, Dolby, etc.), adjust the volume (default value is 0 decibel) using the ◀ and ▶ keys.
4. If the sound and picture are not synchronized, adjust the **AUDIO/VIDEO delay** setting (default value is 0 millisecond) using the ◀ and ▶ keys.
5. Adjust the **Audio description** volume using the ◀ and ▶ keys.



These settings will apply to all programmes watched on all channels.

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Setting network

This feature allows you to define your network parameters:

1. Go to **Receiver settings** > **Network settings**.
2. Define your **Ethernet configuration**:
   - **Manual**: in this case, enter the figures of each address required, or
   - **DHCP** configuration.

Resetting the receiver

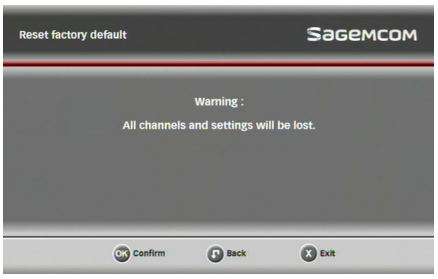
Note

If you reset the default settings, you lose the channels and settings you made.

This operation does not erase the recordings saved in the recording list.

1. Go to **Receiver settings** > **Reset factory default**.

2. Enter your parental code and press the OK key.
   A warning message appears.
3. To cancel the operation, press the ↩ or ✕ key.
   To confirm the reset, press the OK [**Confirm**] key.



Once the default settings are restored, the receiver installation screen is displayed. You can then reconfigure your receiver (see section **Running your first installation**, page 22).

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Information Menu

The information contained in this menu may be requested if you contact your supplier or another technical service.

You will find here important information about the receiver, the hard disk drive, the embedded software and the customer support details.

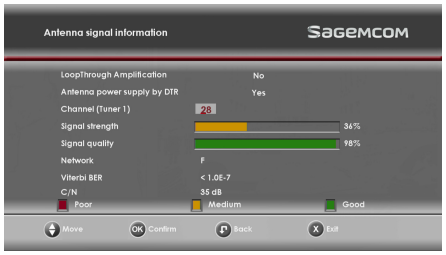
To access the receiver technical information, go to **MENU** > **Technical information**.

Antenna Signal Information

Go to **Technical information** > **Antenna signal information**.

This menu lets you find out the signal level and quality of your antenna, for the currently watched programme.

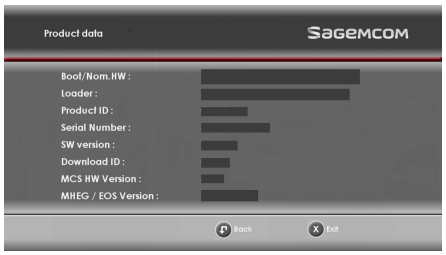
If you use an active antenna with an amplifier and if you want the receiver to supply it with power (5 V power voltage -50 mA max.), set **Antenna power supply by DTR** to **Yes**. Otherwise, set it to **No**.



Receiver Information

Go to **Technical information** > **Product data**.

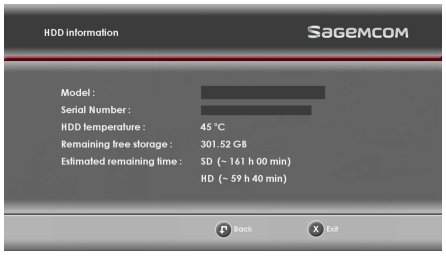
This menu provides information on the receiver software and hardware.



Hard disk drive Information

Go to **Technical information** > **HDD information**.

This menu provides information on the hard disk.



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Customer support information

Go to **Technical information** > **Support & Help**.

This menu provides information on your customer support if needed.

Support & Help
Sagemcom
WE'RE HERE TO HELP!
If you have any questions about your Sagemcom set top box or need technical advice please contact our support team:
08450 900 316 (local rate)
(Monday to Friday, 9am to 5pm)
support.service@sagemcom.com
Support and downloads, including the latest software, are also available online:
www.sagemcomdigital.co.uk
Back
Exit

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11. Troubleshooting

Using the receiver

Symptom	Action
The remote control is not working.	• Point the remote control at the receiver. • Check the battery life and check the batteries are inserted properly.
The receiver display shows no information (no time, no channel number, etc.).	• Switch the receiver on by pressing the On/Off button. • Check all the connections (see section **Connecting your devices**, page 13).
The receiver displays - -: - - in standby mode.	• Take the receiver out of standby mode by pressing the key. • Check that the antenna signal is correctly detected (see section **Antenna Signal Information**, page 51).
The receiver displays a black screen or an error message.	• Check that the antenna signal is correctly detected (see section **Antenna Signal Information**, page 51). • Search for programmes (see section **Searching for channels**, page 48).
The picture is frozen ./ unclear.	• Check all the connections, check the antenna and search for programmes again (see section **Searching for channels**, page 48).
The receiver cannot find any channels.	• Check the antenna reception (see section **Antenna Signal Information**, page 51). • Search for programmes (see section **Searching for channels**, page 48). • Contact your antenna installer/dealer for more information on your antenna installation.
The TV set does not switch to the receiver when it leaves standby mode.	• Check that your TV set is correctly connected to your receiver (see section **Connection to the TV set**, page 15). • Select the appropriate input on your TV set.
There is no sound in HOME CINEMA mode on some channels.	• Check that the receiver is connected to a Home Theatre amplifier with a digital link (see section **Connection to a home theatre system**, page 18).
Black and white video on TV/AUX output (during VCR/DVD recording).	• Check that the signal type chosen for TV/AUX SCART output is compatible with your VCR (select PAL on VCR, see section **Picture settings**, page 49).
I cannot channel-surf between all my channels during a double recording.	• In the case of a double simultaneous recording, you can only channel-surf between a restricted number of channels. You will be able to channel-surf between all your channels again when at least one of the recordings ends.

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Symptom	Action
A black screen (no video) appears at the end of a recording.	• Some channels stop their broadcast with a fixed image or no video. When a recording ends on such programmes, the video recording stops but the time counter continues until the end of the scheduled recording time. Make sure that you set your manual recordings with the correct end time.
For any other problem.	• Perform a default factory reset (see section **Resetting the receiver**, page 50).

Updating the software

The receiver automatically downloads 'over the air' new software and services when they become available.

If a problem is encountered during the download, the receiver displays on its front panel an error code.

Error code	Meaning/Action
Er00	The software currently in the receiver is identical to the software available. Receiver updating is therefore not necessary.
Er02	• The signal quality does not enable the software to be correctly acquired. Press the **OK** key to continue the process. • Check the signal strength and quality (see section **Antenna Signal Information**, page 51).
Er05	
Er10	
Er11	

For any other error messages, contact our customer services team on 08450 900 316.

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12. Customer Support

At Sagemcom we believe that a high quality product should come with the highest quality customer service.

In the design of this product we have taken great care to ensure the maximum quality possible and are sure that you will be delighted with your purchase.

However, in the rare event that you have any problems with the product and need advice or support you can be confident that we will do our best to help you.

Our dedicated technical helpdesk can be contacted from 09:00 – 17:00, Monday to Friday and will offer expert guidance on your product.

In the event of any trouble, please do not hesitate to call them on:

0845 090 0316*

**3.95 pence per minute from all fixed lines, tariff cost effective from 01/09/2009*

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13. Guarantee Terms

ATTENTION

In order to apply the guarantee, you should contact your retailer or Sagemcom Broadband SAS helpdesk at 0845 090 0316*. Proof of purchase will be required. Should any malfunctioning arise, the retailer or Sagemcom Broadband SAS helpdesk will advise you what to do.

If you bought your equipment from Sagemcom Broadband SAS directly, the following shall apply:

1) Sagemcom Broadband SAS undertakes to remedy by repair, free of charge for labour and replacement parts, any defects in the equipment during a period of twelve (12) months from the date of original delivery of the equipment, where those defects are a result of faulty workmanship.

During this twelve-month guarantee period, the defective equipment will be repaired free of charge; the customer must however return the defective equipment in its original package with all accessories at his/her own expense, to the address given by Sagemcom Broadband SAS After Sales Department, the phone number of which can be found on the delivery slip. Unless the customer has concluded with Sagemcom Broadband SAS a maintenance contract for the equipment which specifically provides for repairs to be carried out at the customer's residence, the repairs will not be carried out on the equipment at the customer's residence.

The following sentence applies to purchases of equipment for the customer's trade, business or profession.

Except as otherwise expressly provided in this Document and to the extent permitted by law, Sagemcom Broadband SAS makes no representations or warranties, express or implied, statuette or otherwise, and to such extent, all terms and conditions implied by law are hereby excluded.

This guarantee does not affect the Customer's statutory rights.

2) **Exclusions from Guarantee**

Sagemcom Broadband SAS shall have no liability under the guarantee in respect of:

- damage, defects breakdown or malfunction due to:
  - failure to properly follow the installation process and instructions for use, or
  - an external cause to the equipment (including but not limited to, lightning, fire, shock or water damage of any nature), or
  - modifications made without the written approval of Sagemcom Broadband SAS, or
  - a failure or neglect to maintain the equipment or inappropriate maintenance, or
  - unsuitable operating conditions, particularly of temperature and humidity, or
  - repair or maintenance of the equipment by persons not authorised by Sagemcom Broadband SAS,
- the removal and/or destruction of the label positioned on the fixation screw of the lower plastic cover,
- wear and tear from normal daily use of the equipment and its accessories,
- damage due to insufficient or bad packaging of equipment when returned to Sagemcom Broadband SAS,
- supply of new versions of software,

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- work on any equipment or software modified or added without the prior written consent of Sagemcom SAS,
- malfunctions not resulting from the Equipment or from software installed in user workstations for the purpose of use of the equipment,
- communication problems related to an unsuitable environment, including:
  - problems related to access and/or connection to the Internet such as interruptions by access networks or malfunction of the line used by the subscriber or his correspondent,
  - transmission faults (for example poor geographical coverage by radio transmitters, interference or poor line quality),
  - the local network fault (wiring, servers, workstations) or the failure of the transmission network,
- the normal servicing (as defined in the user guide supplied with the equipment) as well as malfunctioning due to servicing not being carried out, servicing costs are in any event always borne by the customer.

** 3.95 pence per minute from all fixed lines, tariff cost effective from 01/09/2009*

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14. Specifications

DUAL DVB-T/T2 FRONT END

RF INPUT

2 RF tuners (w. internal splitter)

Input frequency range: UHF470-862 (8MHz bandwidth)

Input signal level: -90 to -20 dBm

Input impedance: 75 Ohms unbalanced

Tuning step 166,66kHz

DVB-T DEMODULATOR

Transmission mode: FFT 2k & 8k, MFN and SFN network supported

Constellation: QPSK, 16-QAM & 64-QAM

Guard interval: 1/4, 1/8, 1/16 & 1/32

Mode: Non hierarchical

Code rate: 1/2, 2/3, 3/4, 5/6 & 7/8

Outer decoder: Reed Salomon (204, 188, 8)

DVB-T2 DEMODULATOR

Transmission mode: FFT 1K, 2k, 4K, 8k, 8K EXT,16K, 16K EXT, 32K & 32K EXT
MFN and SFN network supported

Constellation: QPSK, 16-QAM, 64-QAM & 256-QAM

Guard interval: 1/4, 19/128, 1/8, 19/256, 1/16, 1/32 & 1/128

Single and multiple-PLPs

LDPC Code rate: 1/2, 3/5, 2/3, 3/4, 4/5 & 5/6

Outer decoder: BCH

DATA PORT

ETHERNET 10/100BT

Fully integrated IEEE 802.3/802.3u 10/100 base T-Physical layer

Auto-negotiation 10/100, Full/Half Duplex

Adaptive equaliser, Baseline wander correction

USB

Host USB 2.0 High speed (480 Mbits/s)

PROCESSOR AND MEMORIES

Processor: STi7105 - 800MIPS

RAM memory 256 Mbytes

Flash memory 32 Mbytes

EEPROM emulated into Flash

2½" HARD DISK DRIVE

Capacity: 320 or 500 Gbytes depending on the model

Interface S-ATA

Noise under operation (typ.): <30dBA

VIDEO DECODING

MPEG2

Standard MPEG-2 MP@HL for 50 Hz

Input rates (max): 15 Mbit/s

MPEG-4 Part 10 / H.264

MPEG-4 AVC HP@L4 (HD) for 50 Hz

Input rates (max): 20 Mbit/s for HP@L4

MPEG-4 AVC HP@L3 (SD) for 50 Hz

Input rates (max): 10 Mbit/s for HP@L3

CABAC and CAVLC decoding

Supports all intra/inter prediction modes and block sizes, I,P and B picture types

Fidelity range extensions (8x8 Transforms, 8x8 Spatial Prediction Mode, Dynamic Quantization Matrix)

AUDIO DECODING

Stereo 2.0

MPEG-1 layer I & II (Musicam)

MPEG-2 layer II

AAC

Mode: Mono, stereo, joint stereo

Sampling rates 32, 44.1 or 48 KHz

Multicanal 5.1

DOLBY Digital

Mode: pass through and down mixing

DOLBY Digital+

Mode: pass through, transcoding Dolby Digital, and down mixing

DTS bypassed, transcoded from HEAAC

OUTPUT RESOLUTION FORMAT

For HD broadcast

1280x720 @ 50 Hz (progressive)

1920x1080 @ 25 Hz (interlaced)

Unscaled (original format) or scaled

576i and 720p by set up menu

Zoom function on HDMI: 4/3, 14/9 zoom, 16/9 zoom and Full screen

For SD broadcast

720x576 @ 50 Hz interlaced

Unscaled (original format) or scaled

720p and 1080i by set up menu

Zoom function on HDMI: 4/3, 14/9 zoom, 16/9 zoom and Full screen

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Format function on TV SCART

4/3 and 16/9 with conversion Pan and Scan, Letter box

SD INPUT/OUTPUT

SCART (TV setup configuration)

RGB out, PAL in/out, volume control Audio R/L, Fast blanking out, Slow blanking out

SCART (Receiver setup configuration)

RGB in, PAL out , S-video out, fixed volume Audio R/L, Slow blanking in

HDMI OUTPUT

HDMI 1.3 and HDCP 1.1

VIDEO: YCrCb

AUDIO

- 2 channels PCM in case of MPEG1-layer II
- Transcoded DTS in case of HEAAC
- Dolby Digital or PCM in case of Dolby Digital beat stream (*)
- Dolby Digital Plus, Dolby Digital or PCM in case of Dolby Digital Plus beat stream (*)

(*) according of E(EDID) information

AUDIO OUTPUT

HiFi audio output

Adjustable audio level

- Mono/stereo in case of MPEG1 layer II,
- Two channnels down mixed in case of Dolby Digital, Dolby Digital Plus, HEAAC audio stream

Coax S/PDIF

Stereo audio setup:

Fixed audio level -20 dBLKFS

- Two channels PCM in case of MPEG1-layer II stream,
- Two channels PCM downmix in case of Dolby Digital / Dolby Digital Plus/HEAAC streams

Multicanal audio set up:

Fixed audio level -31 dBLKFS

- Two channels PCM in case of MPEG1-layer II stream,
- Originally received bit stream in case of Dolby Digital
- Transcoded Dolby Digital in case of Dolby Digital Plus
- DTS in case of HEAAC

FRONT PANEL

4 digits 7 segments blue color display

IR sensor: 38 KHz

1 x bicolour led

3 x buttons: On/Off, P+, P-

1 x USB 2.0 (Type A Host)

REAR PANEL

1 x RF input (IEC169-24-F)

1 x RF output (IEC169-24-M)

1 x RJ45 (ETH 10/100BT)

1 x TV SCART (IEC60807-9)

2 x RCA (Stereo L/R)

1 x RCA (S/PDIF)

1 x HDMI with HDCP

POWER SUPPLY

Mains supply voltage 220-240 V ~50 Hz

External AC/DC adapter

Power (IEC 62087 Ed2): 25W

Standby consumption: < 2W

PHYSICAL SPECIFICATIONS

Receiver:

- Size (wxdxh): 260x160x48 mm
- Weight: ~0.8 Kg
- Operating temperature: 0°C to +40°
- Storage temperature: -25°C to +65°C

ACCESSORIES

1 x EU Power cable

1 x Remote control (range: 10.5m/33 feet)

2 x Saline AAA-R03 batteries

1 x HDMI cord

1 x User manual

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